Suomi-NPP Continuity Product Updates
VIIRS Cryosphere Products

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S-NPP VIIRS Cryosphere Products

Collection 1:

VNP10	Snow Cover L2
VNP10A1	Daily Snow Cover L3
VNP10A1F	Daily Snow Cover Cloud-Gap-Filled L3
VNP29	Sea Ice Cover L2
VNP30	Ice Surface Temperature L2

Collection 2 :

VNP10 , VNP10A1, VNP10A1F revised algorithm and data content, improved snow cover detection.
VNP29
VNP30
VNP30P1[D|N] New algorithm for daily average Ice Surface Temperature, day and night products

Status and Updates:

- Algorithms revised for NASA L2 inputs in C2. HDF5 and HDF-EOS5 with netCDF CF-1.6 conventions for attributes and geolocation.
- Evaluation of C2 series of products from LSIPS science tests will determine if revisions are needed.

Known Issues:

- Cloud mask algorithm/product continuity and quality being investigated. LDOPE and PI analyses in progress.
- VNP30P1[D|N] is a new algorithm, daily mean IST, product content is not continuous with the MODIS daily IST algorithm, which is a single-observation algorithm.
- CMG algorithms/products development paused for discussion of gridding resolution.

Recent Publications:

- Preparing an invited manuscript on MODIS and VIIRS snow cover continuity for Remote Sensing special issue “Analysis of Decadal-Scale Continuous Data Products from Weather Satellite Platforms”. **Issue:** Delayed until the C6.1 and C2 products are available from the DAAC.
- J. Hammond (USGS) Preliminary evaluation of using VNP10A1F in SnowModel simulations has had good results.